



PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				<i>Complete If Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/589,288
<i>(Use as many sheets as necessary)</i>				Filing Date	June 8, 2000
				First Named Inventor	Guo-Liang Yu
				Art Unit	1647
				Examiner Name	B.E. Bunner
Sheet	1	of	5	Attorney Docket Number	PF343P3C7

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
BEB	J1	US2002/0037852 A1	03-28-2002	Browning et al.	
	J2	US2002/0150579 A1	10-17-2002	Kimberly et al.	
	J3	US2003/0059937 A1	03-27-2003	Ruben et al.	
	J4	US2003/0095967 A1	05-22-2003	MacKay et al.	
	J5	US2003/0148445 A1	08-07-2003	Shu	
	J6	US2003/0166546 A1	09-04-2003	Aggarwal	
	J7	US2005/0100548 A1	05-12-2005	Browning et al.	
	J8	US2005/0244411 A1	11-03-2005	MacKay et al.	
	J9	6,403,770	06-11-2002	Yu et al.	
	J10	6,562,579	05-13-2003	Yu et al.	
	J11	6,635,482	10-21-2003	Yu et al.	
	J12	6,689,579	02-10-2004	Yu et al.	
	J13	6,716,576	04-06-2004	Yu et al.	
	J14	09/302,863	NA	Immunex Corp.	
	J15	60/149,378	NA	Mackay, F., et al.	
	J16	09/255,794	NA	Yu, G., et al.	
	J17	60/119,906	NA	Boyle, W. and Hsu, H.	
	J18	60/166,271	NA	Boyle, W. and Hsu, H.	
	J19	09/226,533	NA	Gross, J., et al.	
	J20	60/157,933	NA	Schneider, P., et al.	
BEB	J21	5,595,721	01-21-1997	Kaminski et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number-Kind Code ⁴ (if known)			
BEB	J22	WO99/35170 A2	07-15-1999	Genentech, Inc.	
	J23	WO01/87977 A3	11-22-2001	Amgen, Inc.	
	J24	WO01/60397 A1	08-23-2001	Genentech, Inc.	
	J25	WO04/074511 A1	09-02-2004	Garvan Institute of Medical Research	
	J26	WO05/005462 A3	01-10-2005	Genentech, Inc.	
	J27	WO05/042009 A1	05-12-2005	Biogen IDEC MA, Inc.	
	J28	EP 1 354 598 A3	10-22-2003	ZymoGenetics, Inc.	
	J29	EP 1 415 659 A1	05-06-2004	Biogen, Inc. and Apoxis SA	
	J30	EP 1 146 892 B1	08-20-2003	Biogen, Inc., Apoxis SA	
	J31	EP 1 141 274 B1	09-10-2003	ZymoGenetics, Inc.	
	J32	WO98/39361 A1	09-11-1998	St. Jude Children's Research Hospital	
	J33	WO01/12812 A2	02-22-2001	Biogen, Inc. and Apotech R & D SA	
	J34	WO01/24811 A1	04-12-2001	Biogen, Inc. and Apotech R & D SA	
BEB	J35	WO02/066516 A3	08-29-2002	ZymoGenetics, Inc.	

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/19/2006
--------------------	---------------------	-----------------	------------

Error! Unknown document property name.

Substitute for form 1449A/B/PTO				<i>Complete If Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	09/589,288
Sheet	2	of	5	Filing Date	June 8, 2000
				First Named Inventor	Guo-Liang Yu
				Art Unit	1647
				Examiner Name	B.E. Bunner
				Attorney Docket Number	PF343P3C7

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³	Number ⁴ -Kind Code ⁵ (if known)				
BEB	J36	EP	9828628.9	NA	Glaxo Group Ltd.		

NON PATENT LITERATURE DOCUMENTS							
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					T ²
BEB	J37	Human Genome Sciences' opposition of EP Patent No 1 146 892 B1 including Annex A. Filed in the European Patent Office on September 19, 2005.					
BEB	J38	Serono International SA's opposition of EP Patent No 1 146 892 B1 with Annexes I and II. Filed in the European Patent Office on August 24, 2005					
BEB	J39	Lexikon der Medizin "Hypertension"					
BEB	J40	WALLACH, D. "TNF Ligands and TNF/NGF Receptor Families" in Cytokine Reference Vol.1: Ligands, eds. Oppenheim and Feldman, Academic Press, pp. 377-411. (2001).					
	J41	Corixa Corporation's opposition of EP Patent No 1 141 274 B1. Filed in the European Patent Office on June 6, 2004.					
	J42	Human Genome Science's opposition of EP Patent No 1 141 274 B1. Filed in the European Patent Office on June 7, 2004.					
	J43	Genentech's opposition of EP Patent No 1 141 274 B1. Filed in the European Patent Office on June 10, 2004.					
	J44	Biogen IDEC's opposition of EP Patent No 1 141 274 B1. Filed in the European Patent Office on June 10, 2004.					
	J45	NARDELLI ET AL., "B Lymphocyte Stimulator (BLyS): a therapeutic trichotomy for the treatment of B lymphocyte diseases" <i>Leukemia and Lymphoma</i> , 43:1367-1373. (2002).					
	J46	VON BULOW and BRAM, "NF-AT activation induced by a CAML-interacting member of the tumor necrosis factor receptor superfamily" <i>Science</i> , 278: 138-141. (1997).					
	J47	LAABI ET AL., "A new gene, BCM, on chromosome 16 is fused to the interleukin 2 gene by a t(4;16)(q26;p13) translocation in a malignant T cell lymphoma" <i>The EMBO Journal</i> , 11:3897-3904. (1992).					
	J48	LAABI ET AL., "The BCMA gene, preferentially expressed during B lymphoid maturation, is bidirectionally transcribed" <i>Nucleic Acids Research</i> , 22:1147-1154. (1994).					
	J49	MADRY ET AL., "The characterization of murine BCMA gene defines it as a new member of the tumor necrosis factor receptor superfamily" <i>International Immunology</i> , 10:1693-1702. (1998).					
	J50	GRAS ET AL., "BCMAp: an integral membrane protein in the Golgi apparatus of human mature B lymphocytes" <i>International Immunology</i> , 7:1093-1106. (1995).					
	J51	Table setting out SEQ ID Nos (provided by Opponent I).					
	J52	PATEL ET AL., "Engineering an APRIL-specific B cell maturation antigen" <i>The Journal of Biological Chemistry</i> , 279:16727-16735. (2004).					
	J53	MUKHOPADHYAY ET AL., "Identification and characterization of a novel cytokine, THANK, a TNF Homologue that activates Apoptosis, Nuclear factor-kappaB, and c-Jun NH2-terminal Kinase" <i>The Journal of Biological Chemistry</i> , 274:15978-15981. (1999).					
	J54	Clustal V Alignment of human and mouse TACI (provided by Opponent I).					
BEB	J55	BODMER ET AL., "The molecular architecture of the TNF superfamily" <i>Trends in Biochemical Sciences</i> , 27:19-26. (2002).					

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/19/2006
--------------------	---------------------	-----------------	------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete If Known	
				Application Number	09/589,288
				Filing Date	June 8, 2000
				First Named Inventor	Guo-Liang Yu
				Art Unit	1647
				Examiner Name	B.E. Bunner
Sheet	3	of	5	Attorney Docket Number	PF343P3C7

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
BEB	J56	HYMOWITZ, ET AL., "Structures of APRIL-receptor complexes: like BCMA, TACI employs only a single cysteine-rich domain for high affinity ligand binding" <i>The Journal of Biological Chemistry</i> , 280:7218-7227, (2005), with Tables S1-S4 and Fig. S1 as published in the online version of this article available at http://www.jbc.org .			
BEB	J57	Sequence alignment of "Prosite" sequence (D1) and SEQ ID NO: 10 of EP 1 141 274 B1.			
BEB	J58	Further experimental evidence concerning anti-TACI antibodies of [EP 1 141 274 B1] Patent Example 18 (ZymoGenetics' unpublished data).			
BEB	J59	GROSS ET AL., "TACI-Ig neutralizes molecules critical for B cell development and autoimmune disease: Impaired B cell maturation in mice lacking BLyS" <i>Immunity</i> , 15:289-302. (2001).			
BEB	J60	Human Genome Science Inc.'s Reply filed in the European Patent Office on September 19, 2005 in conjunction with its Opposition of EP Patent No 1 146 892.			
	J61	DELVES AND ROITT, Encyclopedia of Immunology. 2 nd ed. Academic Press Inc. pp 1554-1559. (1998).			
	J62	JANEWAY AND TRAVERS, Immunobiology: The Immune System in Health and Disease. Current Biology Ltd./Garland Publishing, London. pp 5:28. (1994).			
	J63	REED ET AL., "Modulating Apoptosis Pathways in Low Grade B-Cell Malignancies Using Biological Response Modifiers" <i>Seminars in Oncology</i> , 29:10-24. (2002).			
	J64	HUARD ET AL., "BAFF production by antigen-presenting cells provides T cell co-stimulation" <i>International Immunology</i> , 16:467-475. (2004).			
	J65	NG ET AL., "B Cell-Activating Factor Belonging to the TNF Family (BAFF)-R Is the Principal BAFF Receptor Facilitating BAFF Costimulation of Circulating T and B Cells" <i>Journal of Immunology</i> , 173:807-817. (2004).			
	J66	BATTEN ET AL., "The role of BAFF in Autoimmunity: Is it just a B cell story?" The Midwinter Conference of Immunologists at Asilomar, Pacific Grove, CA (January 22-25, 2005).			
	J67	DAVIDSON and DIAMOND, "Autoimmune Diseases" <i>New England Journal of Medicine</i> , 345:340-350. (2001).			
	J68	JANEWAY AND TRAVERS, Immunobiology: The Immune System in Health and Disease. Current Biology Ltd./Garland Publishing, London. pp. 12:1-12:19. (1997).			
	J69	TSOKOS, G.C. "Lymphocytes, cytokines, inflammation, and immune trafficking" <i>Current Opinion in Rheumatology</i> , 7:376-383. (1995).			
	J70	PANAYI, G.S. "The Pathogenesis of Rheumatoid Arthritis: From Molecules to the Whole Patient" <i>British Journal of Rheumatology</i> , 32:533-536. (1993).			
	J71	SMITH ET AL., Principles of Biochemistry: General Aspects. McGraw Hill Book Company, New York. pp. 194-197. (1983).			
	J72	HARLOW AND LANE, "Antibody Capture Assays-Comparing Antibody Binding Sites Using an Antibody Competition Assay", Antibodies: A Laboratory Manual. Cold Spring Harbor Laboratory. pp. 567-569. (1988).			
	J73	WELLS, J.A., "Additivity of Mutational Effects in Proteins", <i>Biochemistry</i> , 29(37):8509-8517. (1990).			
	J74	NGO ET AL., Computational Complexity, Protein Structure Prediction and the Levinthal Paradox. <i>The Protein Folding Problem and Tertiary Structure Prediction</i> , pp. 492-495. (1994).			
	J75	ELGERT, K., (1996) Immunology: Understanding the Immune System. Wiley-Liss: New York. p. 24			
BEB	J76	BORK ET AL., "Go hunting in sequence databases but watch out for the traps", <i>Trends in Genetics</i> , 12:425-7. (1996).			

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/19/2006
--------------------	---------------------	-----------------	------------

Error! Unknown document property name.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				<i>Complete If Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/589,288
<i>(Use as many sheets as necessary)</i>				Filing Date	June 8, 2000
				First Named Inventor	Guo-Liang Yu
				Art Unit	1647
				Examiner Name	B.E. Bunner
Sheet	4	of	5	Attorney Docket Number	PF343P3C7

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
BEB	J77	SMITH ET AL., "The challenges of genome sequence annotation or 'The devil is in the details", <i>Nature Biotechnology</i> , 15:1222-3. (1997).				
	J78	DOERKS ET AL., "Protein Annotation: Detective Work for Function Prediction", <i>Trends in Genetics</i> , 14:248-250. (1998).				
	J78	BRENNER, S.E., "Errors in Genome Annotation" <i>Trends in Genetics</i> , 15:132-3. (1999).				
	J79	SKOLNICK ET AL., "From genes to protein structure and function: novel applications of computational approaches in the genome era" <i>Trends in Biotechnology</i> , 18: 34-9. (2000).				
	J80	BORK ET AL., "Powers and pitfalls in sequence analysis: the 70% hurdle" <i>Genome Research</i> , 10:398-400. (2000).				
	J81	TRIBOULEY ET AL., "Characterization of a New Member of the TNF Family Expressed on Antigen Presenting Cells" <i>Biological Chemistry</i> , 380: 1443-7. (1999).				
	J82	ASHKENAZI ET AL., "Response to 'Secreted IgM versus BLyS in germinal center formation" <i>Nature Immunology</i> , 1:179. (2000).				
	J83	BATTEN ET AL., "BAFF Mediates Survival of Peripheral Immature B Lymphocytes" <i>The Journal of Experimental Medicine</i> , 192:1453-65. (2000).				
	J84	WARE, "APRIL and BAFF Connect Autoimmunity and Cancer" <i>The Journal of Experimental Medicine</i> , 192:F35-F38. (2000).				
	J85	DORNER and PUTTERMAN, "B Cells, BAFF/zTNF4, TACI and Systemic Lupus Erythematosus" <i>Arthritis Research</i> 3:197-9. (2001).				
	J86	SIEGEL and LENARDO, "To B or not to B: TNF family signaling in lymphocytes" <i>Nature Immunology</i> , 2:577-8. (2001).				
	J87	LIU ET AL., "Crystal structure of sTALL-1 reveals a virus-like assembly of TNF family ligands" <i>Cell</i> , 108:383-394. (2002).				
	J88	KARPUSAS ET AL., "Crystal structure of extracellular human BAFF, a TNF family member that stimulates B lymphocytes" <i>Journal of Molecular Biology</i> , 315:1145-1154. (2002).				
	J89	OREN ET AL., "Structural basis of BLyS receptor recognition" <i>Nature Structural Biology</i> , 9:288-292. (2002).				
	J90	LIU ET AL., "Ligand receptor binding revealed by the TNF family member Tall-1" <i>Nature</i> , 423:49-56. (2003).				
	J91	HEPPELER ET AL., "Receptor Targeting for Tumor Localisation and Therapy with Radiopeptides" <i>Current Medicinal Chemistry</i> , 7:971-994. (2000).				
	J92	Genbank Accession No. Q9Y275. (1999). Shu et al., 16 October 2001.				
	J93	DENARDO ET AL., "Comparison of 1, 4, 7, 10-Tetraazacyclododecane-N, N', N", N"-tetraacetic acid (DOTA)-Peptide-ChL6, a Novel Immunoconjugate with Catabolizable Linker, to 2 iminothiolane-2'-p-(Bromoacetamido)benzyl]-DOTA-ChL6 in Breast Cancer Xenographs" <i>Clinical Cancer Research</i> , 4:2483-2490. (1998).				
	J94	STOHL, WILLIAM, "Blysfulness does not equal blissfulness in systemic lupus erythematosus: a therapeutic role for BLyS antagonists" <i>Current Directions in Autoimmunity</i> , 8:289-304. (2005).				
	J95	BAKER, KEVIN P., "Blys-an essential survival factor for B cells: basic biology, links to pathology and therapeutic target" <i>Autoimmunity Reviews</i> , 3:368-375. (2004).				
	J96	KEHRL ET AL., "Effect of tumor necrosis factor alpha on mitogen-activated human B cells" <i>Journal of Experimental Medicine</i> , 166:786-791. (1987).				
BEB	J97	LOTZ ET AL., "The nerve growth factor/tumor necrosis factor receptor family" <i>Journal of Leukocyte Biology</i> , 60:1-7. (1996).				

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/19/2006
--------------------	---------------------	-----------------	------------

Error Unknown document property name.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				<i>Complete if Known</i>	
				Application Number	09/589,288
				Filing Date	June 8, 2000
				First Named Inventor	Guo-Liang Yu
				Art Unit	1647
				Examiner Name	B.E. Bunner
Sheet	5	of	5	Attorney Docket Number	PF343P3C7

NON PATENT LITERATURE DOCUMENTS		
BEB	J98	Molecular Biology of the Cell, Second Edition, edited by Alberts et al., Garland Publishing, Inc., New York, pp. 117-118. (1989).
BEB	J99	MARIETTE ET AL., "The Level of BLyS (BAFF) Correlates With the Titre of Autoantibodies in Human Sjogren's Syndrome" <i>Annual Rheumatology Discussion</i> , 62:168-171. (2003).

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/19/2006
-----------------------	---------------------	--------------------	------------

Error! Unknown document property name.



PTO/SB/08a/b (06-03)

Approved for use through 07/31/2003. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete if Known	
				Application Number	09/589,288-Conf. #1519
				Filing Date	June 8, 2000
				First Named Inventor	Guo-Liang Yu
				Art Unit	1647
				Examiner Name	B. Bunner
Sheet	1	of	1	Attorney Docket Number	PF343P3C5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear T ⁶

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16, if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	C1	Waldmann, TA, "Immunotherapy: Past, Present and Future," Nature Medicine 9:269-277, (2003).			
	C2	Janeway, C. & P. Travers. (1994) Immunobiology: The Immune System in Health and Disease, (Current Biology Ltd./Garland Publishing, London), pp 1:15, 1:16 and 11:19.			
	C3	Weinblatt, ME et al., Methotrexate in rheumatoid arthritis. A five-year prospective multicenter study. Arthritis and Rheumatism. (1994) 37:1492-1498.			
	C4	Wise, CM et al., Methotrexate in nonrenal lupus and undifferentiated connective tissue disease - a review of 36 patients. The Journal of Rheumatology. (1996) 23:1005-1010.			
	C5	Brazelton, TR and RE Morris. Molecular mechanism of action of new xenobiotic immunosuppressive drugs: tacrolimus (FK506), sirolimus (rapamycin), mycophenolate mofetil and leflunomide. Current Opinion in Immunology. (1996) 8:710-720.			
	C6	Goldblum, R. Therapy of rheumatoid arthritis with mycophenolate mofetil. Clinical and Experimental Rheumatology. (1993) 11 suppl 8:S117-119.			
	C7	Ciruelo, E et al., Cumulative rate of relapse of lupus nephritis after successful treatment with cyclophosphamide. Arthritis and Rheumatism. (1996) 39:2028-2034.			
	C8	Huurd, et al., T cell costimulation by the TNF ligand BAFF. The Journal of Immunology. (2001) 167(11):6225-31.			
	C9	Kayagaki, N et al., BAFF/BLyS receptor 3 binds the B cell survival factor BAFF ligand through a discrete surface loop and promotes processing of NF-kappaB2. Immunity (2002) 10:515-24.			
	C10	Abbas et al., Cellular and Molecular Immunology (W.B. Saunders Company: Philadelphia) 1991, pp. 362 and 365.			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/19/2006
--------------------	---------------------	-----------------	------------



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	1	Attorney Docket Number	PF343P305
-------	---	----	---	------------------------	-----------

Complete If Known

Application Number	09/589,288-Conf. #1519
Filing Date	June 8, 2000
First Named Inventor	Guo-Liang Yu
Art Unit	1647
Examiner Name	B. E. Bunner

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
					T ⁶

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	D1	Baker et al., "Generation and Characterization of LymphoStat-B, a Human Monoclonal Antibody That Antagonizes the Bioactivities of B Lymphocyte Stimulator," <i>Arthritis & Rheumatism</i> , 48(11):3253-3265 (Nov. 2003).			
	D2	Furie, R. et al., "Safety, Pharmacokinetic and Pharmacodynamic Results of a Phase 1 Single and Double Dose Escalation Study of LymphoStat-B (Human Monoclonal Antibody to BLYS) in SLE Patients." 67th Annual American College of Rheumatology Scientific Meeting, October 23-28, 2003, Orlando, Florida.			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/19/2006
--------------------	---------------------	-----------------	------------



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

1

Complete if Known

Application Number	09/589,288-Conf. #1519
Filing Date	June 8, 2000
First Named Inventor	Guo-Liang Yu
Art Unit	1647
Examiner Name	B. E. Bunner
Attorney Docket Number	PF343P3C5

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	E1	6,869,605	03-22-2005	Browning et al.	
	E2	6,875,846	04-05-2005	Rennert et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	E3	Biogen Inc. and Apoxis SA's Response (including Annexes A and B and the Main Request containing a substitute set of claims) to Human Genome Sciences and Serono's Oppositions of EP Patent No. 1146892. The Response was filed in the European Patent Office on March 14, 2005.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/19/2006
--------------------	---------------------	-----------------	------------



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	1	Attorney Docket Number	PF343P305
-------	---	----	---	------------------------	-----------

Complete If Known

Application Number	09/589,288-Conf. #1518
Filing Date	June 8, 2000
First Named Inventor	Guo-Liang Yu
Art Unit	1647
Examiner Name	B. E. Bunner

U.S. PATENT DOCUMENTS					
Examiner Initials ^a	Cite No. ¹	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)	MM-DD-YYYY		

FOREIGN PATENT DOCUMENTS

Examiner Initials ^a	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ^c
		Country Code ^d -Number ^e -Kind Code ^f (if known)	MM-DD-YYYY			
F1	WO-00/58362		10-05-2000	HUMAN GENOME SCIENCES, INC.		

^aEXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ^bApplicant's unique citation designation number (optional). ^cSee Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ^dEnter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ^eFor Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ^fKind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ^gApplicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials ^a	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ^c
	F2	WPI/DERWENT Accession No. 2000-572093.	
	F3	Supplementary Partial European Search Report, European Application No. EP 00 90 8739, mailed June 30, 2005.	

^aEXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^bApplicant's unique citation designation number (optional). ^cApplicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/19/2006
--------------------	---------------------	-----------------	------------



Substitute for form 1449A/B/PTO

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
The Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
Sheet	1	of	1	Application Number	09/589,288-Conf. #1519
				Filing Date	June 8, 2000
				First Named Inventor	Guo-Liang Yu
				Art Unit	1647
				Examiner Name	B. E. Bunner
				Attorney Docket Number	PF343P3C5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ⁶
	G1	ZymoGenetics' Observations in Reply (158 pages) to Oppositions of EP Patent No. 1141274 lodged by Corixa Corporation, Human Genome Sciences, Inc., Genentech, Inc., and Biogen Idec, Inc. The Observations in Reply was filed in the European Patent Office on June 7, 2005.			
	G2	STOHL, W., "A therapeutic role for BLyS antagonists," <i>Lupus</i> , 13:317-322 (2004).			
	G3	NOVAK et al, "Expression of BLyS and its receptors in B-cell non-Hodgkin lymphoma: correlation with disease activity and patient outcome," <i>Blood</i> , 104(8):2247-2253 (2004).			
	G4	European Search Report, European Application No. EP 05 01 2261, mailed August 8, 2005.			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ⁶Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/19/2006
--------------------	---------------------	-----------------	------------



PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	1	Attorney Docket Number	PF343P3C5
-------	---	----	---	------------------------	-----------

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	I1	WO-02/18620	03-07-2002	Human Genome Sciences, Inc.		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	I2	SCHALLER et al., "Characterization of <i>apxVA</i> , a new RTX determinant of <i>Actinobacillus pleuropneumoniae</i> ," <i>Microbiology</i> , 145:2105-2116 (1999).	
	I3	CHEN et al., "Expression vectors for affinity purification and radiolabeling of proteins using <i>Escherichia coli</i> as host," <i>Gene</i> , 139:73-75 (1994).	
	I4	Supplementary European Search Report, European Application No. 02 78 6413, mailed December 20, 2006.	
	I5	Human Genome Sciences, Inc.'s Reply filed in the European Patent Office on November 4, 2005 in conjunction with its Opposition of EP Patent No. 1141274 and copies of supporting documents D41-D43.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ⁶Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/19/2006
--------------------	---------------------	-----------------	------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				RECEIVED	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					
(Use as many sheets as necessary)					
Sheet	1	of	1	Attorney Docket Number	PF343P3C5 DEC 08 2003

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
					T ⁶

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
BEB	C1	Waldmann, TA, "Immunotherapy: Past, Present and Future," <i>Nature Medicine</i> 9:269-277, (2003).			T ²
	C2	Janeway, C. & P. Travers. (1994) <i>Immunobiology: The Immune System in Health and Disease</i> , (Current Biology Ltd./Garland Publishing, London), pp 1:15, 1:16 and 11:19.			
	C3	Weinblatt, ME et al., Methotrexate in rheumatoid arthritis. A five-year prospective multicenter study. <i>Arthritis and Rheumatism</i> . (1994) 37:1492-1498.			
	C4	Wise, CM et al., Methotrexate in nonrenal lupus and undifferentiated connective tissue disease - a review of 36 patients. <i>The Journal of Rheumatology</i> . (1996) 23:1005-1010.			
	C5	Brazelton, TR and RE Morris. Molecular mechanism of action of new xenobiotic immunosuppressive drugs: tacrolimus (FK506), sirolimus (rapamycin), mycophenolate mofetil and leflunomide. <i>Current Opinion in Immunology</i> . (1996) 8:710-720.			
	C6	Goldblum, R, Therapy of rheumatoid arthritis with mycophenolate mofetil. <i>Clinical and Experimental Rheumatology</i> . (1993) 11 suppl 8:S117-119.			
	C7	Ciruelo, E et al., Cumulative rate of relapse of lupus nephritis after successful treatment with cyclophosphamide. <i>Arthritis and Rheumatism</i> . (1996) 39:2028-2034.			
	C8	Huard, et al., T cell costimulation by the TNF ligand BAFF. <i>The Journal of Immunology</i> . (2001) 167(11):6225-31.			
	C9	Kayagaki, N et al., BAFF/BLyS receptor 3 binds the B cell survival factor BAFF ligand through a discrete surface loop and promotes processing of NF-kappaB2. <i>Immunity</i> (2002) 10:515-24.			
BEB	C10	Abbas et al., <i>Cellular and Molecular Immunology</i> (W.B. Saunders Company: Philadelphia) - 1991, pp. 362 and 365.			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/13/2006
--------------------	---------------------	-----------------	------------



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	09/589,288-Conf. #1519
Sheet	1	of	1	Filing Date	June 8, 2000
				First Named Inventor	Guo-Liang Yu
				Art Unit	1647
				Examiner Name	B. E. Bunner
				Attorney Docket Number	PF343P3C5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
					T ⁶

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
BEB	D1	Baker et al., "Generation and Characterization of LymphoStat-B, a Human Monoclonal Antibody That Antagonizes the Bioactivities of B Lymphocyte Stimulator," <i>Arthritis & Rheumatism</i> , 48(11):3253-3265 (Nov. 2003).			
BEB	D2	Furie, R. et al., "Safety, Pharmacokinetic and Pharmacodynamic Results of a Phase 1 Single and Double Dose-Escalation Study of LymphoStat-B (Human Monoclonal Antibody to BLyS) in SLE Patients." 67th Annual American College of Rheumatology Scientific Meeting, October 23-28, 2003, Orlando, Florida.			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/13/2006
--------------------	---------------------	-----------------	------------



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	09/589,288-Conf. #1519
Sheet	1	of	1	Filing Date	June 8, 2000
				First Named Inventor	Guo-Liang Yu
				Art Unit	1647
				Examiner Name	B. E. Bunner
				Attorney Docket Number	PF343P3C5

U.S. PATENT DOCUMENTS					
Examiner Initials ¹	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
BEB	E1	6,869,605	03-22-2005	Browning et al.	
BEB	E2	6,875,846	04-05-2005	Rennert et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ²Applicant's unique citation designation number (optional). ³See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁴Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁷Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
BEB	E3	Biogen Inc. and Apoxis SA's Response (including Annexes A and B and the Main Request containing a substitute set of claims) to Human Genome Sciences and Serono's Oppositions of EP Patent No. 1146892. The Response was filed in the European Patent Office on March 14, 2005.			

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

²Applicant's unique citation designation number (optional). ³Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/13/2006
--------------------	---------------------	-----------------	------------



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08a/b (08-03)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/B/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/589,288-Conf. #1519
<i>(Use as many sheets as necessary)</i>				Filing Date	June 8, 2000
				First Named Inventor	Guo-Liang Yu
				Art Unit	1647
				Examiner Name	B. E. Bunner
Sheet	1	of	1	Attorney Docket Number	PF343P3C5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
BEB	F1	WO-00/58362	10-05-2000	HUMAN GENOME SCIENCES, INC.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			²
BEB	F2	WPI/DERWENT Accession No. 2000-572093.			
BEB	F3	Supplementary Partial European Search Report, European Application No. EP 00 90 8739, mailed June 30, 2005.			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/13/2006
--------------------	---------------------	-----------------	------------



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete If Known

Application Number	09/589,288-Conf. #1519		
Filing Date	June 8, 2000		
First Named Inventor	Guo-Liang Yu		
Art Unit	1647		
Examiner Name	B. E. Bunner		
Attorney Docket Number	PF343P3C5		

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
BEB	G1	ZymoGenetics' Observations in Reply (158 pages) to Oppositions of EP Patent No. 1141274 lodged by Corixa Corporation, Human Genome Sciences, Inc., Genentech, Inc., and Biogen Idec, Inc. The Observations in Reply was filed in the European Patent Office on June 7, 2005.	
BEB	G2	STOHIL, W., "A therapeutic role for BLyS antagonists," <i>Lupus</i> , 13:317-322 (2004).	
BEB	G3	NOVAK et al., "Expression of BLyS and its receptors in B-cell non-Hodgkin lymphoma: correlation with disease activity and patient outcome," <i>Blood</i> , 104(8):2247-2253 (2004).	
BEB	G4	European Search Report, European Application No. EP 05 01 2261, mailed August 8, 2005.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/19/2006
--------------------	---------------------	-----------------	------------



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08a/b (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

1

Complete if Known

Application Number	09/589,288-Conf. #1519
Filing Date	June 8, 2000
First Named Inventor	Guo-Liang Yu
Art Unit	1647
Examiner Name	B. E. Bunner
Attorney Docket Number	PF343P3C5

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

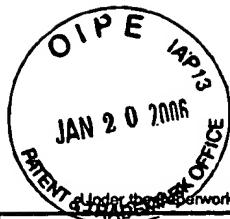
NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
BEB	H1	Serono International SA's Reply filed in the European Patent Office on August 24, 2005 in conjunction with its Opposition of EP Patent No. 1146892.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Bridget B. Bunner/	Date Considered	07/13/2006
--------------------	---------------------	-----------------	------------



PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

1

Complete if Known

Application Number	09/589,288-Conf. #1519
Filing Date	June 8, 2000
First Named Inventor	Guo-Liang Yu
Art Unit	1647
Examiner Name	B. E. Bunner

Attorney Docket Number

PF343P3C5

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
BEB	I1	WO-02/18620	03-07-2002	Human Genome Sciences, Inc.		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
BEB	I2	SCHALLER et al., "Characterization of <i>apxIVA</i> , a new RTX determinant of <i>Actinobacillus pleuropneumoniae</i> ," <i>Microbiology</i> , 145:2105-2116 (1999).	
	I3	CHEN et al., "Expression vectors for affinity purification and radiolabeling of proteins using <i>Escherichia coli</i> as host," <i>Gene</i> , 139:73-75 (1994).	
	I4	Supplementary European Search Report, European Application No. 02 78 6413, mailed December 20, 2005.	
BEB	I5	Human Genome Sciences, Inc.'s Reply filed in the European Patent Office on November 4, 2005 in conjunction with its Opposition of EP Patent No. 1141274 and copies of supporting documents D41-D43.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete If Known	
				Application Number	09/589,288
				Filing Date	June 8, 2000
				First Named Inventor	Guo-Liang Yu
				Art Unit	1647
				Examiner Name	B.E. Bunner
Sheet	1	of	1	Attorney Docket Number	PF343P3C5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number-Kind Code ⁴ (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			²
BEB	L1	ZymoGenetics' opposition of EP Patent No 0 939 804 including copies of supporting documents D1-D27. Filed in the European Patent Office on May 17, 2006.			
BEB	L2	Serono International SA's opposition of EP Patent No 0 939 804 including copies of supporting documents D1-D17. Filed in the European Patent Office on May 17, 2006.			
BEB	L3	Eli Lilly and Company's opposition of EP Patent No 0 939 804 including copies of supporting documents D1-D16. Filed in the European Patent Office on May 17, 2006.			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Bridget E. Bunner/	Date Considered	07/13/2006
--------------------	---------------------	-----------------	------------